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1 Storytelling evolves on the web: case study: EXOCOG and the future of storytelling
Jim Miller
January 2005 **interactions**, Volume 12 Issue 1

Full text available: 📄 pdf(1.21 MB) 🗎   Additional Information: full citation, abstract, references, index terms
html(79.52 KB)

The ubiquity and immersive capabilities of the Web have only recently allowed substantive advances in the age-old art of storytelling. Exocog was a set of Web sites that provided a five-week experiment in this new realm. It illuminates the balance that occurs between new modes of storytelling on the Web and the more traditional narrative elements that remain, offering a unique view of this still-evolving process.

2 Web mining, tools, and performance evaluation: A visual tool for building logical data models of websites
Zehua Liu, Wee Keong Ng, Feifei Li, Ee-Peng Lim
November 2002 **Proceedings of the 4th international workshop on Web information and data management**

Full text available: 📄 pdf(450.82 KB)   Additional Information: full citation, abstract, references, citings, index terms

Information sources over the WWW contain a large amount of data organized according to different interests and values. Thus, it is important that facilities are there to enable users to extract information of interest in a simple and effective manner. To do this, We propose the Wiccap Data Model, an XML data model that maps Web information sources into commonly perceived logical models, so that information can be extracted automatically according to users' interests. To accelerate the creation o ...

Keywords: supervised wrapper generation, web data model, web information extraction

3 Full papers: Privacy-preserving data integration and sharing
Chris Clifton, Murat Kantarcio☐lu, AnHai Doan, Gunther Schadow, Jaideep Vaidya, Ahmed Elmagarmid, Dan Suciu
June 2004 **Proceedings of the 9th ACM SIGMOD workshop on Research issues in data mining and knowledge discovery**

Full text available: 📄 pdf(135.55 KB)   Additional Information: full citation, abstract, references, index terms

Integrating data from multiple sources has been a longstanding challenge in the database

community. Techniques such as privacy-preserving data mining promises privacy, but assume data has integration has been accomplished. Data integration methods are seriously hampered by inability to share the data to be integrated. This paper lays out a privacy framework for data integration. Challenges for data integration in the context of this framework are discussed, in the context of existing accomplishm ...

4 Semantic web applications: Building a companion website in the semantic web
Timothy J. Miles-Board, Christopher P. Bailey, Wendy Hall, Leslie A. Carr
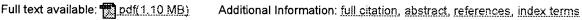May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available: pdf(348.67 KB)   Additional Information: full citation, abstract, references, index terms

A problem facing many textbook authors (including one of the authors of this paper) is the inevitable delay between new advances in the subject area and their incorporation in a new (paper) edition of the textbook. This means that some textbooks are quickly considered out of date, particularly in active technological areas such as the Web, even though the ideas presented in the textbook are still valid and important to the community. This paper describes our approach to building a companion webs ...

Keywords: bloom's taxonomy, companion website, electronic publishing, semantic web, textbook
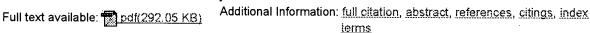
5 PocketLens: Toward a personal recommender system
Bradley N. Miller, Joseph A. Konstan, John Riedl
July 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 3

Full text available: pdf(1.10 MB)   Additional Information: full citation, abstract, references, index terms

Recommender systems using collaborative filtering are a popular technique for reducing information overload and finding products to purchase. One limitation of current recommenders is that they are not portable. They can only run on large computers connected to the Internet. A second limitation is that they require the user to trust the owner of the recommender with personal preference data. Personal recommenders hold the promise of delivering high quality recommendations on palmtop computers, e ...

Keywords: Collaborative Filtering, Peer-to-Peer Networking, Privacy, Recommender Systems

6 Web: Building a web thesaurus from web link structure
Zheng Chen, Shengping Liu, Liu Wenyin, Geguang Pu, Wei-Ying Ma
July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval**

Full text available: pdf(292.05 KB)   Additional Information: full citation, abstract, references, citings, index terms

Thesaurus has been widely used in many applications, including information retrieval, natural language processing, and question answering. In this paper, we propose a novel approach to automatically constructing a domain-specific thesaurus from the Web using link structure information. The proposed approach is able to identify new terms and reflect the latest relationship between terms as the Web evolves. First, a set of high quality and representative websites of a specific domain is selected. ...

Keywords: content structure, link analysis, query expansion, thesaurus

7
Formal hardware specification languages for protocol compliance verification

Annette Bunker, Ganesh Gopalakrishnan, Sally A. Mckee
January 2004 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 9 Issue 1

Full text available: pdf(217.90 KB)   Additional Information: full citation, abstract, references, index terms, review

The advent of the system-on-chip and intellectual property hardware design paradigms makes protocol compliance verification increasingly important to the success of a project. One of the central tools in any verification project is the modeling language, and we survey the field of candidate languages for protocol compliance verification, limiting our discussion to languages originally intended for hardware and software design and verification activities. We frame our comparison by first construc ...

Keywords: Esterel, Heterogeneous Hardware Logic, Hierarchical Annotated Action Diagrams, Java, Lava, Live Sequence Charts, Message Sequence Charts, Objective VHDL, OpenVera, Property Specification Language, SpecC, Specification and Description Language, Statecharts, SystemC, SystemVerilog, The Unified Modeling Language, e, hardware monitors, timing diagrams

8 Constructing, organizing, and visualizing collections of topically related Web resources
Loren Terveen, Will Hill, Brian Amento
March 1999 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 6 Issue 1

Full text available: pdf(303.62 KB)   Additional Information: full citation, abstract, references, citings, index terms

For many purposes, the Web page is too small a unit of interaction and analysis. Web sites are structured multimedia documents consisting of many pages, and users often are interested in obtaining and evaluating entire collections of topically related sites. Once such a collection is obtained, users face the challenge of exploring, comprehending and organizing the items. We report four innovations that address these user needs: (1) we replaced the Web page with the Web site
Keywords: cocitation analysis, collaborative filtering, computer supported cooperative work, information visualization, social filtering, social network analysis

9 Metaheuristics in combinatorial optimization: Overview and conceptual comparison
Christian Blum, Andrea Roli
September 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 3

Full text available: pdf(431.84 KB)   Additional Information: full citation, abstract, references, index terms

The field of metaheuristics for the application to combinatorial optimization problems is a rapidly growing field of research. This is due to the importance of combinatorial optimization problems for the scientific as well as the industrial world. We give a survey of the nowadays most important metaheuristics from a conceptual point of view. We outline the different components and concepts that are used in the different metaheuristics in order to analyze their similarities and differences. Two v ...

Keywords: Metaheuristics, combinatorial optimization, diversification., intensification

10 Spatial Hypertext: Semantics happen: knowledge building in spatial hypertext
Frank Shipman, J. Michael Moore, Preetam Maloor, Haowei Hsieh, Raghu Akkapeddi
June 2002 **Proceedings of the thirteenth ACM conference on Hypertext and hypermedia**

Full text available: pdf(392.66 KB)   Additional Information: full citation, abstract, references, citings, index terms

Hypertext represents ideas through chunks of text or other media interconnected by relations, typically navigational links. The similarity to knowledge representations such as frames and semantic nets has led to much effort in using hypertext systems for knowledge representation and extending hypertext systems to make them able to express more. This work has met with limited success due to difficulties including the tacit and situated nature of much knowledge. Instead of viewing knowledge expres ...

Keywords: incremental formalization, mixed-initiative dialogs, spatial hypertext, spatial parser, suggestion-based interfaces, visual language

11 A new technique for website design using an interactive visualization hypertext tool
Jay M. Lightfoot
April 1997 **Proceedings of the 1997 ACM SIGCPR conference on Computer personnel research**
Full text available: pdf(838.45 KB)   Additional Information: full citation, references, index terms

12 Hypermedia semantics: Finding the story: broader applicability of semantics and discourse for hypermedia generation
Lloyd Rutledge, Martin Alberink, Rogier Brussee, Stanislav Pokraev, William van Dieten, Mettina Veenstra
August 2003 **Proceedings of the fourteenth ACM conference on Hypertext and hypermedia**
Full text available: pdf(396.48 KB)   Additional Information: full citation, abstract, references, citings, index terms

Generating hypermedia presentations requires processing constituent material into coherent, unified presentations. One large challenge is creating a generic process for producing hypermedia presentations from the semantics of potentially unfamiliar domains. The resulting presentations must both respect the underlying semantics and appear as coherent, plausible and, if possible, pleasant to the user. Among the related unsolved problems is the inclusion of discourse knowledge in the generation pro ...

Keywords: RDF, SMIL, clustering, concept lattices, discourse, hypermedia, narrative, semantics

13 Pushing reuse in hypermedia design: golden rules, design patterns and constructive templates
Marc Nanard, Jocelyne Nanard, Paul Kahn
May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**
Full text available: pdf(1.48 MB)   Additional Information: full citation, references, citings, index terms

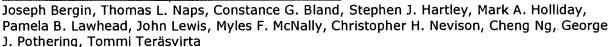**14** Redesigning a large and complex website: how to begin, and a method for success
Elaine Chou
November 2002 **Proceedings of the 30th annual ACM SIGUCCS conference on User services**
Full text available: pdf(598.42 KB)   Additional Information: full citation, abstract, references, index terms

In a technology-oriented, information-intense world, one of the largest challenges facing higher education is the organization, communication, and presentation of information in a

coherent and usable fashion via the world wide web. The Learning Team, a part of Information Technology at the College of William and Mary, offers vision and a solution for developing a robust web-based information architecture to centrally administer customized learning modules and services as well as promote web-base ...

Keywords: accessibility, automation, communications, consistency, efficiency, information architecture, internet, just-in-time, learning, needs assessment, support, task analysis, training, usability, web services, web site

15 Java resources for computer science instruction

Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B. Lawhead, John Lewis, Myles F. McNally, Christopher H. Nevison, Cheng Ng, George J. Pothering, Tommi Teräsvirta

December 1998 **Working Group reports of the 3rd annual SIGCSE/SIGCUE ITiCSE conference on Integrating technology into computer science education**

Full text available: pdf(107.98 KB)   Additional Information: full citation, references, citings, index terms
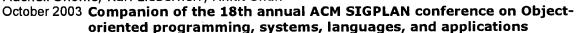
16 Replication for web hosting systems

Swaminathan Sivasubramanian, Michal Szymaniak, Guillaume Pierre, Maarten van Steen

September 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 3

Full text available: pdf(374.99 KB)   Additional Information: full citation, abstract, references, index terms

Replication is a well-known technique to improve the accessibility of Web sites. It generally offers reduced client latencies and increases a site's availability. However, applying replication techniques is not trivial, and various Content Delivery Networks (CDNs) have been created to facilitate replication for digital content providers. The success of these CDNs has triggered further research efforts into developing advanced <i>Web replica hosting systems</i>. These are systems that ...

Keywords: Web replication, content delivery networks

17 DDD papers: XAspects: an extensible system for domain-specific aspect languages

Macneil Shonle, Karl Lieberherr, Ankit Shah

October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**

Full text available: pdf(218.84 KB)   Additional Information: full citation, abstract, references, citings, index terms

Current general aspect-oriented programming solutions fall short of helping the problem of separation of concerns for several concern domains. Because of this limitation good solutions for these concern domains do not get used and the opportunity to benefit from separation of these concerns is missed. By using XAspects, a plug-in mechanism for domain-specific aspect languages, separation of concerns can be achieved at a level beyond what is possible for object-oriented programming languages. As ...

Keywords: aspect-oriented programming, domain-specific languages, generative programming, language extensions

18 Reflections on the dimensions of trust and trustworthiness among online consumers

David Gefen

August 2002 **ACM SIGMIS Database**, Volume 33 Issue 3

Full text available: pdf(581.74 KB)   Additional Information: full citation, abstract, references, citings, index terms

Trust is emerging as a potentially central aspect leading to IT acceptance. It is especially needed in the case of gaining and later retaining consumers of online vendors. This has been shown by previous research using single dimensional constructs. But trust can also be viewed as a multi-dimensional construct combining specific beliefs (sometimes labeled as trustworthiness) that either directly or through an overall assessment of trust influence relevant behavioral intentions. To show the need ...

Keywords: ability, benevolence, electronic commerce, integrity, trust, trust scales, trustworthiness, world wide web

19 Wireless Andrew: building a high speed, campus-wide wireless data network
Bernard J. Bennington, Charles R. Bartel
January 2001 **Mobile Networks and Applications**, Volume 6 Issue 1
Full text available: pdf(159.87 KB)   Additional Information: full citation, references, index terms

Keywords: Andrew, WaveLAN, integration, wireless network

20 Java resources for computer science instruction
Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B. Lawhead, John Lewis, Myles F. McNally, Christopher H. Nevison, Cheng Ng, George J. Pothering, Tommi Teräsvirta
October 1998 **ACM SIGCUE Outlook**, Volume 26 Issue 4
Full text available: pdf(2.23 MB)   Additional Information: full citation, abstract, references, index terms

The goal of this working group was to collect, evaluate, and foster the development of resources to serve as components of both new and revised traditional courses that emphasize object-oriented software development using Java. These courses could, for example, integrate Internet-based distributed programming, concurrency, database programming, graphics and visualization, human interface design and object-oriented development. They could therefore also be suitable as capstone courses in computer ...

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21 Bottom-up relational learning of pattern matching rules for information extraction
Mary Elaine Califf, Raymond J. Mooney
December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: 📄 pdf(175.06 KB)   Additional Information: full citation, abstract, references, citings, index terms

Information extraction is a form of shallow text processing that locates a specified set of relevant items in a natural-language document. Systems for this task require significant domain-specific knowledge and are time-consuming and difficult to build by hand, making them a good application for machine learning. We present an algorithm, RAPIER, that uses pairs of sample documents and filled templates to induce pattern-match rules that directly extract fillers for the slots in the template. RAPI ...

22 A work of art: creating a site/classroom build from scratch
Bert Valenzuela
November 2002 **Proceedings of the 30th annual ACM SIGUCCS conference on User services**

Full text available: 📄 pdf(135.43 KB)   Additional Information: full citation, abstract, references, index terms

Creating a master build configuration for a computer lab and/or classroom is a major undertaking. At first, it seems overwhelming: not to mention, time consuming. To help with this, Arizona State University East Information Technology (ASUE IT) would like to share their process for creating this work of art.The process for creating a site build (in brief) is:

• Write a project plan with objectives and timelines (optional).

• Plan your build by mapping out what server shares, pri ...

Keywords: Arizona State University, Kix32, PC-Rdist, SID, Windows, build, default user profile, group policy, kerberos, lab configuration, lab management, logon time, mandatory profile, procedure, script, site configuration

23 Web of communities: The role of standards in creating community
Kathi C. Martin
May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**

Full text available: 📄 pdf(544.30 KB)   Additional Information: full citation, abstract, references, index terms

Participation in the web of communities requires a common language, a common technological structure and development of content that is relevant and captivating. This paper reports on a project that both conserves a rich regional cultural heritage and has structured the content developed during this conservation to be fluidly shared with both the domain and the broader communities. It also examines the varied degrees of acceptance within these communities.

Keywords: Dublin core, XML, historic costume collection, museums online archive California, ontology, open archive initiative, semantic web, thesaurus

24 Production: Building Virtual and Augmented Reality museum exhibitions
Rafal Wojciechowski, Krzysztof Walczak, Martin White, Wojciech Cellary
April 2004 **Proceedings of the ninth international conference on 3D Web technology**

Full text available: 📄 pdf(5.89 MB)   Additional Information: full citation, abstract, references, index terms

A system that allows museums to build and manage Virtual and Augmented Reality exhibitions based on 3D models of artifacts is presented. Dynamic content creation based on pre-designed visualization templates allows content designers to create virtual exhibitions very efficiently. Virtual Reality exhibitions can be presented both inside museums, e.g. on touch-screen displays installed inside galleries and, at the same time, on the Internet. Additionally, the presentation based on Augmented Realit ...

Keywords: VRML, augmented reality, cultural heritage, virtual reality

25 Java resources for computer science instruction
Joseph Bergin, Thomas L. Naps, Constance G. Bland, Stephen J. Hartley, Mark A. Holliday, Pamela B. Lawhead, John Lewis, Myles F. McNally, Christopher H. Nevison, Cheng Ng, George J. Pothering, Tommi Teräsvirta
December 1998 **ACM SIGCSE Bulletin**, Volume 30 Issue 4

Full text available: 📄 pdf(2.29 MB)   Additional Information: full citation, abstract, citings, index terms

The goal of this working group was to collect, evaluate, and foster the development of resources to serve as components of both new and revised traditional courses that emphasize object-oriented software development using Java. These courses could, for example, integrate Internet-based distributed programming, concurrency, database programming, graphics and visualization, human interface design and object-oriented development. They could therefore also be suitable as capstone courses in computer ...

26 Hypertext versioning: Automatic generation of hypertext system repositories: a model driven approach
E. James Whitehead, Guozheng Ge, Kai Pan
August 2004 **Proceedings of the fifteenth ACM conference on Hypertext & hypermedia**

Full text available: 📄 pdf(593.73 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we present a model-driven methodology and toolset for automatic generation of hypertext system repositories. Our code generator, called Bamboo, is based on a Containment Modeling Framework (CMF) that uniformly describes data models for hypertext systems. CMF employs a lightweight modeling approach in which entities (system abstractions) and containment relationships are used to model hypertext system repositories. Given a description of a system repository data model using CMF, as ...

Keywords: automatic code generation, containment modeling framework, hypertext data models, model-driven development, open hyperbase

27 OOPSLA onward! track: Routine run-time code generation
Sam Kamin
December 2003 **ACM SIGPLAN Notices**, Volume 38 Issue 12

Full text available: pdf(538.01 KB)   Additional Information: full citation, abstract, references, index terms

Run-time code generation (RTCG) would be used routinely if application programmers had a facility with which they could easily create their own run-time code generators, because it would offer benefits both in terms of the efficiency of the code that programmers would produce and the ease of producing it. Such a facility would necessarily have the following properties: it would not require that programmers know assembly language; programmers would have full control over the generated code; the c ...

Keywords: Java, run-time code generation

28 Onward papers: Routine run-time code generation
Sam Kamin
October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**

Full text available: pdf(295.83 KB)   Additional Information: full citation, abstract, references, citings, index terms

Run-time code generation (RTCG) would be used routinely if application programmers had a facility with which they could easily create their own run-time code generators, because it would offer benefits both in terms of the efficiency of the code that programmers would produce and the ease of producing it. Such a facility would necessarily have the following properties: it would not require that programmers know assembly language; programmers would have full control over the generated code; the c ...

Keywords: Java, run-time code generation

29 Migration of legacy web applications to enterprise Java™ environments net.data® to JSP™ transformation
Yu Ping, Jianguo Lu, Terence C. Lau, Kostas Kontogiannis, Tack Tong, Bo Yi
October 2003 **Proceedings of the 2003 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(165.69 KB)   Additional Information: full citation, abstract, references, index terms

As Web technologies advance, the porting and adaptation of existing Web applications to take advantage of the advancement has become an issue of increasing importance. Examples of such technology advancement include extensible architectural designs, more efficient caching protocols, and provision for customizable dynamic content delivery. This paper presents an experience report on the migration of legacy IBM® Net.Data® based applications to new enterprise Java
Keywords: Java 2 Enterprise Edition (J2EE™), JavaBeans, JavaServer pages, Net.Data, SQL, migration, model-view-controller (MVC), transformation

30 Face recognition: A literature survey
W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld
December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4

Full text available: pdf(4.28 MB)   Additional Information: full citation, abstract, references, citings, index terms

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

31 Procuring a usable system using unemployed personas
Erik Markensten, Henrik Artman
October 2004 **Proceedings of the third Nordic conference on Human-computer interaction**
Full text available: pdf(290.78 KB)   Additional Information: full citation, abstract, references, index terms

This case study examines a procurement project where the Swedish National Labor Market Administration (AMV) hired usability consultants in order to redesign their website for employment exchange. The user centered design process was part of a larger project to define how the website could be reorganized to better support new organizational goals. The project was managed by a procurement group that had already defined the organizational requirements for the website. They hired the usability co ...

Keywords: acquire, business, design, integration, interaction architect, personas, procure, procurement, procurer, requirements, usability

32 xlinkit: a consistency checking and smart link generation service
Christian Nentwich, Licia Capra, Wolfgang Emmerich, Anthony Finkelstein
May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2
Full text available: pdf(463.26 KB)   Additional Information: full citation, abstract, references, citings, index terms

xlinkit is a lightweight application service that provides rule-based link generation and checks the consistency of distributed Web content. It leverages standard Internet technologies, notably XML, XPath, and XLink. xlinkit can be used as part of a consistency management scheme or in applications that require smart link generation, including portal construction and management of large document repositories. In this article we show how consistency constraints can be expressed and checked. We des ...

Keywords: Consistency management, XML, automatic link generation, constraint checking

33 On the sorting-complexity of suffix tree construction
Martin Farach-Colton, Paolo Ferragina, S. Muthukrishnan
November 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 6
Full text available: pdf(179.17 KB)   Additional Information: full citation, abstract, references, citings, index terms

The suffix tree of a string is the fundamental data structure of combinatorial pattern matching. We present a recursive technique for building suffix trees that yields optimal algorithms in different computational models. Sorting is an inherent bottleneck in building suffix trees and our algorithms match the sorting lower bound. Specifically, we present the following results. (1) Weiner [1973], who introduced the data structure, gave an optimal 0 (n)-time al ...

Keywords: DAM model, RAM model, external-memory data structures, sorting complexity,

suffix array, suffix tree

34 Creating an internet and multimedia technology program in a computer science department

Sylvia Sorkin, Donna Tupper, Andrew Beiderman, Kathleen Harmeyer, Barbara Mento

February 2003 **Journal of Computing Sciences in Colleges**, Volume 18 Issue 3

Full text available: pdf(68.96 KB)   Additional Information: full citation, abstract, references, index terms

This paper describes the three-year process of creating a new Internet and Multimedia Technology associate's degree and certificate program at the Essex Campus of the Community College of Baltimore County (CCBC Essex). Program growth, student progress, and difficulties are described.

35 Personalization from incomplete data: what you don't know can hurt

Balaji Padmanabhan, Zhiqiang Zheng, Steven O. Kimbrough

August 2001 **Proceedings of the seventh ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: pdf(810.80 KB)   Additional Information: full citation, abstract, references, citings, index terms

Clickstream data collected at any web site (site-centric data) is inherently incomplete, since it does not capture users' browsing behavior across sites (user-centric data). Hence, models learned from such data may be subject to limitations, the nature of which has not been well studied. Understanding the limitations is particularly important since most current personalization techniques are based on site-centric data only. In this paper, we empirically examine the implications of learning from ...

Keywords: Incomplete data, clickstream data, data preprocessing, learning, personalization, probabilistic clipping

36 Modelling for heritage experiences: A versatile 3D model representation for cultural reconstruction

Sven Havemann, Dieter Fellner

November 2001 **Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage**

Full text available: pdf(8.15 MB)   Additional Information: full citation, abstract, references, index terms

This paper describes the a simple, yet very efficient and powerful mesh representation, called *Combined BRep*, and its application to virtual reconstruction of detailed building geometry. Utilizing the expressive power of the new mesh representation buildings can be modeled more faithfully while still warranting interactive rendering rates.

37 Building an electronic learning community: from design to implementation

Anne Rose, Wei Ding, Gary Marchionini, Josephus Beale, Victor Nolet

January 1998 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: pdf(1.08 MB)   Additional Information: full citation, references, citings, index terms

Keywords: digital libraries, dynamic query, java, learning communities, video

38 Techniques and language constructs for developing generic informations systems: a

case study
Silke Eckstein, Peter Ahlbrecht, Karl Neumann
May 2001 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2001
symposium on Software reusability: putting software reuse in context**,
Volume 26 Issue 3
Full text available: pdf(194.63 KB)   Additional Information: full citation, abstract, references, index terms

> When creating a family of systems, i.e. several systems of similar type which differ within
> some aspects, it is desirable to be able to express these differences already at the level of
> the specification, and to automatically obtain systems from it which are ready to run. The
> use of generic methods may lead to substantial progress in this area. This report explores
> two aspects: parameterization concepts at the specification level, which can be used to
> describe variants of a system, and gene ...
>
> **Keywords**: Java, UML, application generators, information systems, parameterized
> programming, parameterized specification

39 Linguistic resource creation for research and technology development: A recent
experiment
Stephanie Strassel, Mike Maxwell, Christopher Cieri
June 2003 **ACM Transactions on Asian Language Information Processing (TALIP)**,
Volume 2 Issue 2
Full text available: pdf(186.39 KB)   Additional Information: full citation, abstract, references, index terms

> Advances in statistical machine learning encourage language-independent approaches to
> linguistic technology development. Experiments in "porting" technologies to handle new
> natural languages have revealed a great potential for multilingual computing, but also a
> frustrating lack of linguistic resources for most languages. Recent efforts to address the lack
> of available resources have focused either on intensive resource development for a small
> number of languages or development of technologies fo ...
>
> **Keywords**: Cebuano, Hindi, Machine translation, crosslanguage, information extraction,
> information retrieval, language parsing and understanding, linguistic resources, machine
> translation, summarization, text analysis, translingual information access technology

40 An ethnographic study of technical support workers: why we didn't build a tech support
digital library
Sally Jo Cunningham, Chris Knowles, Nina Reeves
January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**
Full text available: pdf(227.13 KB)   Additional Information: full citation, abstract, references, index terms

> In this paper we describe the results of an ethnographic study of the information
> behaviourss of university technical support workers and their information needs. The study
> looked at how the group identified, located and used information from a variety of sources
> to solve problems arising in the course of their work. The results of the investigation are
> discussed in the context of the feasibility of developing a potential information base that
> could be used by all members of the group. Whi ...
>
> **Keywords**: ethnography, requirements analysis, user studies

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61 Browsers with changing parts: a catalog explorer for Philip Glass' website
Harry Hochheiser
August 2000 **Proceedings of the conference on Designing interactive systems: processes, practices, methods, and techniques**
Full text available: 📄 pdf(446.89 KB)   Additional Information: full citation, abstract, references, index terms

> The development of navigational tools for a web site devoted to a catalog of musical compositions offers a variety of design challenges. A combination of techniques developed from information visualization research - including starfield displays, dynamic queries, and zoomable user interfaces (ZUIs) - was used to construct a prototype browser for possible use in a web site dedicated to the work of Philip Glass. After a discussion of the goals and potential users of the site, this paper descr ...

> **Keywords:** biography, catalog browsing, interactive visualization, music, zoomable user interfaces

62 Constructing multi-granular and topic-focused web site maps
Wen-Syan Li, Necip Fazil Ayan, Okan Kolak, Quoc Vu, Hajime Takano, Hisashi Shimamura
April 2001 **Proceedings of the tenth international conference on World Wide Web**
Full text available: 📄 pdf(3.18 MB)   Additional Information: full citation, references, citings, index terms

> **Keywords:** decision tree algorithm, logical domain, multi-granularity, site map, topic distillation

63 Papers: A page-transition framework for image-oriented Web programming
Takao Shimomura
March 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 2
Full text available: 📄 pdf(1.52 MB)   Additional Information: full citation, abstract, references

> To develop Web applications, various integrated development environments have been used. In addition, several frameworks for efficiently developing those applications have been proposed. This paper presents the image-oriented page-transition framework that models a Web application as a set of transitions of Web pages, and using visual

components, makes it easier to write processes executed when a Web page transfers to another Web page. This page-transition framework has the following novel featu ...

Keywords: Web application, automatic code generation, image-oriented design, page-transition framework

64 The state of the art in automating usability evaluation of user interfaces

Melody Y. Ivory, Marti A Hearst

December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Full text available: pdf(2.31 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Usability evaluation is an increasingly important part of the user interface design process. However, usability evaluation can be expensive in terms of time and human resources, and automation is therefore a promising way to augment existing approaches. This article presents an extensive survey of usability evaluation methods, organized according to a new taxonomy that emphasizes the role of automation. The survey analyzes existing techniques, identifies which aspects of usability evaluation aut ...

Keywords: Graphical user interfaces, taxonomy, usability evaluation automation, web interfaces

65 JDuck: building a software engineering tool in Java as a CS2 project

Michael Godfrey, Dan Grossman

March 1999 **ACM SIGCSE Bulletin , The proceedings of the thirtieth SIGCSE technical symposium on Computer science education**, Volume 31 Issue 1

Full text available: pdf(565.80 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes our experiences in having students build a software engineering tool as a course project in a CS2 course. The tool, which we called JDuck (Java Documenter of Code, oK), was modelled on the javadoc tool that is part of Sun Microsystem's standard Java Development Kit (JDK). That is, a working version of JDuck would be able to read in Java source code and generate HTML files that summarize the basic structure of the provided classes. We discuss how we set up the project, what w ...

66 Construction engineering and project management: An industry perspective on the role of equipment-based earthmoving simulation

Govindan Kannan, Luc Schmitz, Christian Larsen

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available: pdf(227.77 KB)   Additional Information: full citation, abstract, references

Over the last two decades, simulation of construction operations has gained momentum in its ability to provide solutions and understand complex problems. However, there still remains a distinct gap between its role in academia and industry. This gap is not necessarily due to the strategy --- process interaction or activity scanning --- but in the orientation towards application. The success of a simulation program lies in harnessing the collaborative features within a complex pattern of hierarch ...

67 Designing and mining multi-terabyte astronomy archives: the Sloan Digital Sky Survey

Alexander S. Szalay, Peter Z. Kunszt, Ani Thakar, Jim Gray, Don Slutz, Robert J. Brunner

May 2000 **ACM SIGMOD Record , Proceedings of the 2000 ACM SIGMOD international conference on Management of data**, Volume 29 Issue 2

Full text available: pdf(429.09 KB)   Additional Information: full citation, abstract, references, citings, index

terms

The next-generation astronomy digital archives will cover most of the sky at fine resolution in many wavelengths, from X-rays, through ultraviolet, optical, and infrared. The archives will be stored at diverse geographical locations. One of the first of these projects, the Sloan Digital Sky Survey (SDSS) is creating a 5-wavelength catalog over 10,000 square degrees of the sky (see http://www.sdss.org/). The 200 million objects in the multi-terabyte database will have mostly numerical attribut ...

Keywords: Internet, archive, astronomy, data analysis, data mining, database, scalable

68 Tools for incremental development of educational software interfaces
Wolff Daniel Dobson, Christopher K. Riesbeck
January 1998 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Full text available: pdf(1.13 MB)   Additional Information: full citation, references, index terms

Keywords: INDIE, educational software, goal-based scenario, intelligent systems, interface design, interface tools

69 Predicting human interruptibility with sensors
James Fogarty, Scott E. Hudson, Christopher G. Atkeson, Daniel Avrahami, Jodi Forlizzi, Sara Kiesler, Johnny C. Lee, Jie Yang
March 2005 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 12 Issue 1
Full text available: pdf(2.60 MB)   Additional Information: full citation, abstract, references, index terms

A person seeking another person's attention is normally able to quickly assess how interruptible the other person currently is. Such assessments allow behavior that we consider natural, socially appropriate, or simply polite. This is in sharp contrast to current computer and communication systems, which are largely unaware of the social situations surrounding their usage and the impact that their actions have on these situations. If systems could model human interruptibility, they could use this ...

Keywords: Situationally appropriate interaction, context-aware computing, machine learning, managing human attention, sensor-based interfaces

70 Automated techniques for managing collections: Machine learning for information architecture in a large governmental website
Miles Efron, Jonathan Elsas, Gary Marchionini, Junliang Zhang
June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries**
Full text available: pdf(1.49 MB)   Additional Information: full citation, abstract, references, index terms

This paper describes ongoing research into the application of machine learning techniques for improving access to governmental information in complex digital libraries. Under the auspices of the GovStat Project, our goal is to identify a small number of semantically valid concepts that adequately spans the intellectual domain of a collection. The goal of this discovery is twofold. First we desire a practical aid for information architects. Second, automatically derived document-concept relations ...

Keywords: information architecture, interface design, machine learning

71 Mix'n'match: exchangeable modules of hypermedia style

Lloyd Rutledge, Lynda Hardman, Jacco van Ossenbruggen, Dick C. A. Bulterman

February 1999 **Proceedings of the tenth ACM Conference on Hypertext and hypermedia : returning to our diverse roots: returning to our diverse roots**

Full text available: pdf(2.42 MB)   Additional Information: full citation, references, citings, index terms

Keywords: IMMPSs, adaptable hypermedia, presentation specification

72 Notes on constructing a parallel computing platform

Jodie Kok, Elizabeth Elzinga, Greg Wolffe

October 2001 **Journal of Computing Sciences in Colleges**, Volume 17 Issue 1

Full text available: pdf(42.72 KB)   Additional Information: full citation, abstract, references, index terms

Parallel computing is an interesting and important topic that spans several different areas of the computer science curriculum, such as networking, architecture and programming. With the proliferation of open-source software and the availability of inexpensive computer components, it has now become feasible for small colleges and non-research institutions to create parallel computing platforms. In this article we describe the construction of a dedicated computing cluster and the educational bene ...

73 Full papers: The homespun museum: computers, fabrication, and the design of personalized exhibits

M. Eisenberg, N. Elumeze, L. Buechley, G. Blauvelt, S. Hendrix, A. Eisenberg

April 2005 **Proceedings of the 5th conference on Creativity & cognition**

Full text available: pdf(477.65 KB)   Additional Information: full citation, abstract, references, index terms

The traditional view of the "home computer" is as a self-contained appliance: computation, on this view, is something that takes place within a desktop box, and that produces interesting visual effects only on a screen. In this paper, we argue that one can alternatively view "the computer" through its tangible effects on larger settings: that is, the computer can be imagined as the heart of a creative workshop centered within the home or classroom. The advent of accessible fabrication devices, a ...

Keywords: computational crafts, embedded computation, fabrication devices

74 Managing resources and services: Towards a cultural heritage digital library

Gregory Crane, Clifford Wulfman

May 2003 **Proceedings of the 3rd ACM/IEEE-CS joint conference on Digital libraries**

Full text available: pdf(800.99 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper surveys research areas relevant to cultural heritage digital libraries. The emerging National Science Digital Library promises to establish the foundation on which those of us beyond the scientific and engineering community will likely build. This paper thus articulates the particular issues that we have encountered in developing cultural heritage collections. We provide a broad overview of audiences, collections, and services.
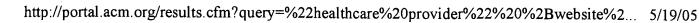
75 SIGSAM BULLETIN: Computer algebra in the life sciences

Michael P. Barnett

December 2002 **ACM SIGSAM Bulletin**, Volume 36 Issue 4

Full text available: Additional Information:

pdf(240.15 KB)   full citation, abstract, references

This note (1) provides references to recent work that applies computer algebra (CA) to the life sciences, (2) cites literature that explains the biological background of each application, (3) states the mathematical methods that are used, (4) mentions the benefits of CA, and (5) suggests some topics for future work.

76 Practical guidelines for the readability of IT-architecture diagrams

Henk Koning, Claire Dormann, Hans van Vliet

October 2002 **Proceedings of the 20th annual international conference on Computer documentation**

Full text available: pdf(337.71 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper presents the work done to establish guidelines for the creation of readable IT-architecture diagrams and gives some examples of guidelines and some examples of improved diagrams. These guidelines are meant to assist practicing IT-architects in preparing the diagrams to communicate their architectures to the various stakeholders. Diagramming has always been important in information technology (IT), but the recent interest in IT-architecture, the widespread use of software and developme ...

Keywords: architecture, color, diagrams, form, graphics, guidelines, hierarchy, layout, readability, size, text, visualization, width

77 Applications and architecture: SHOCK: communicating with computational messages and automatic private profiles

Rajan M. Lukose, Eytan Adar, Joshua R. Tyler, Caesar Sengupta

May 2003 **Proceedings of the twelfth international conference on World Wide Web**

Full text available: pdf(693.99 KB)   Additional Information: full citation, abstract, references, index terms

A computationally enhanced message contains some embedded programmatic components that are interpreted and executed automatically upon receipt. Unlike ordinary text email or instant messages, they make possible a number of useful applications. In this paper, we describe a general and flexible messaging system called SHOCK that extends the functionality of prior computational email systems by allowing XML-encoded SHOCK messages to interact with an automatically created profile of a user. These pr ...

Keywords: collaborative systems, networking and distributed web applications, privacy and preferences

78 MAPA: a system for inducing and visualizing hierarchy in Websites

David Durand, Paul Kahn

May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**

Full text available: pdf(1.52 MB)   Additional Information: full citation, references, citings, index terms

79 Vector reduction/transformation operators

Roscoe A. Bartlett, Bart G. Van Bloemen Waanders, Michael A. Heroux

March 2004 **ACM Transactions on Mathematical Software (TOMS)**, Volume 30 Issue 1

Full text available: pdf(516.85 KB)   Additional Information: full citation, abstract, references, index terms

Development of flexible linear algebra interfaces is an increasingly critical issue. Efficient

and expressive interfaces are well established for some linear algebra abstractions, but not for vectors. Vectors differ from other abstractions in the diversity of necessary operations, sometimes requiring dozens for a given algorithm (e.g. interior-point methods for optimization). We discuss a new approach based on operator objects that are transported to the underlying data by the linear algebra lib ...

Keywords: Optimization, interfaces, object-orientation, vectors

80 Design methodology for PicoRadio networks
J. da Silva, J. Shamberger, M. Ammer, C. Guo, S. Li, R. Shah, T. Tuan, M. Sheets, J. Rabaey, B. Nikolic, A. Sangiovanni-Vincentelli, P. Wright
March 2001 **Proceedings of the conference on Design, automation and test in Europe**

Full text available: pdf(328.60 KB)   Additional Information: full citation, references, index terms

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181 Web usability: Repairing usability problems identified by the cognitive walkthrough for the web
Marilyn Hughes Blackmon, Muneo Kitajima, Peter G. Polson
April 2003 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Full text available: 📄 pdf(489.39 KB)   Additional Information: full citation, abstract, references, index terms

Methods for identifying usability problems in web page designs should ideally also provide practical methods for repairing the problems found. Blackmon et al. [2] proved the usefulness of the Cognitive Walkthrough for the Web (CWW) for identifying three types of problems that interfere with users' navigation and information search tasks. Extending that work, this paper reports a series of two experiments that develop and prove the effectiveness of both full-scale and quick-fix CWW repair methods ...

Keywords: cognitive walkthrough for the web, headings, information scent, latent semantic analysis, usability

182 Towards a standardization of multi-agent system framework
Roberto A. Flores-Mendez
June 1999 **Crossroads**, Volume 5 Issue 4
Full text available: 🌐 html(50.43 KB)   Additional Information: full citation, citings, index terms

183 Surfing the net for software engineering notes
Mark Doernhoefer
July 1999 **ACM SIGSOFT Software Engineering Notes**, Volume 24 Issue 4
Full text available: 📄 pdf(1.26 MB)   Additional Information: full citation, index terms

184 Writing the web: Supporting management reporting: a writable web case study
Timothy Miles-Board, Leslie Carr, Simon Kampa, Wendy Hall
May 2003 **Proceedings of the twelfth international conference on World Wide Web**
Full text available: 📄 pdf(1.17 MB)   Additional Information: full citation, abstract, references, citings, index

terms

The World-Wide Web was originally developed as a shared, writable, hypertext medium, a facility that is still widely needed. We have recently developed a Web-based management reporting system for a legal firm in an attempt to improve the efficiency and management of their overall business process. This paper shares our experiences in relating the firm's specific writing and issue tracking tasks to existing Web, open hypermedia, and Semantic Web research, and describes why we chose to develop a ne ...

Keywords: hypertext writing, management reporting, open hypermedia, structural computing

185 Dual Contouring with Topology-Preserving Simplification Using Enhanced Cell Representation
Nan Zhang, Wei Hong, Arie Kaufman
October 2004 **Proceedings of the conference on Visualization '04**
Full text available: pdf(588.62 KB)   Additional Information: full citation, abstract

We present a fast, topology-preserving approach for isosurface simplification. The underlying concept behind our approach is to preserve the disconnected surface components in cells during isosurface simplification. We represent isosurface components in a novel representation, called enhanced cell, where each surface component in a cell is represented by a vertex and its connectivity information. A topology-preserving vertex clustering algorithm is applied to build a vertex octree. An enhanced d ...

Keywords: isosurface simplification, isosurface extraction, topology preservation, vertex clustering

186 Modeling value propositions in e-Business
Alexander Osterwalder, Yves Pigneur
September 2003 **Proceedings of the 5th international conference on Electronic commerce**
Full text available: pdf(139.53 KB)   Additional Information: full citation, abstract, references, index terms

In this paper we provide a conceptual approach to modelling value propositions. We argue that rigorous modelling in an ontological style could improve several aspects of business. Modelling and mapping value propositions helps better understanding the value a company wants to offer its customers and makes it communicable between various stakeholders. Using a common language (ontology) in defining a company's offering brings manager's mental models into a common form. Further, conceptually seized ...

Keywords: business model, business model design, business strategy, ontology, value proposition

187 A unified sequence-structure classification of protein sequences: combining sequence and structure in a map of the protein space
Golan Yona, Michael Levitt
April 2000 **Proceedings of the fourth annual international conference on Computational molecular biology**
Full text available: pdf(952.18 KB)   Additional Information: full citation, abstract, references

We analyze all known protein sequences in search for a global map of protein space that is consistent in terms of both sequence and structure. Our goal is to define clusters of homologous protein domains, beyond those detected by sequence-based methods alone,

and then to build a three-dimensional (3D) model for each of the sequences that are homologous to sequences of known 3D structure. This analysis uses both sequence and structure based metrics in the analysis of all protein sequences in a ...

188 Documentation, participatory citizenship, and the web: the potential of open systems

Clay Spinuzzi

October 2002 **Proceedings of the 20th annual international conference on Computer documentation**

Full text available: pdf(218.60 KB)   Additional Information: full citation, abstract, references, index terms

Technical communicators have become increasingly interested in how to "open up" the documentation process - to encourage workers to participate in developing documentation that closely fits their needs. This goal has led technical communicators to engage in usability testing, user-centered design approaches, and, more recently, open source documentation. Although these approaches have all had some success, there are other ways to encourage the participatory citizenship that is implied in these a ...

Keywords: customer relationship management, open systems

189 Future of simulation: Model composability as a research investment: responses to the featured paper

Paul C. Davis, Paul A. Fishwick, C. Michael Overstreet, C. Dennis Pegden

December 2000 **Proceedings of the 32nd conference on Winter simulation**

Full text available: pdf(465.19 KB)   Additional Information: full citation, abstract, references, citings

Responses to the featured paper are provided by four authors who represent different elements of the simulation research community: industry, private research laboratory, and university. As is evident from the reactions given, these perspective provide both shared and distinct observations on model composability as an opportunity for research investment.

190 Programming techniques: Using design patterns to build dynamically extensible collaborative virtual environments

Thomas Alexandre

June 2003 **Proceedings of the 2nd international conference on Principles and practice of programming in Java**

Full text available: pdf(125.52 KB)   Additional Information: full citation, abstract, references, index terms

Although in the past decade a lot of research efforts have been concentrated into building multi-user virtual worlds such as 3D collaborative virtual environments (CVE) and gaming platforms [1], the proprietary nature of such systems and their associated complexity has often resulted in large monolithic applications that are difficult to maintain and extend. At the same time, the openness and scalability of the web let us imagine what could be the next step in the evolution of information sharin ...

Keywords: model driven architecture, networked virtual environments

191 Computing surveys' electronic symposium on hypertext and hypermedia: editorial

Helen Ashman, Rosemary Michelle Simpson

December 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 4

Full text available: pdf(.00 bytes)   Additional Information: full citation, references, citings, index terms

192 Computing Surveys' electronic symposium on hypertext and hypermedia: editorial
Helen Ashman, Rosemary Michelle Simpson
December 1999 **ACM Computing Surveys (CSUR)**

Full text available: pdf(77.88 KB)   Additional Information: full citation, references, index terms

193 Practitioner reports: Mock roles, objects
Steve Freeman, Tim Mackinnon, Nat Pryce, Joe Walnes
October 2004 **Companion to the 19th annual ACM SIGPLAN conference on Object-oriented programming systems, languages, and applications**

Full text available: pdf(283.46 KB)   Additional Information: full citation, abstract, references, index terms

Mock Objects is an extension to Test-Driven Development that supports good Object-Oriented design by guiding the discovery of a coherent system of types within a code base. It turns out to be less interesting as a technique for isolating tests from third-party libraries than is widely thought. This paper describes the process of using Mock Objects with an extended example and reports best and worst practices gained from experience of applying the process. It also introduces jMock, a Java fram ...

Keywords: java, mock objects, test-driven development

194 Manufacturing applications: Manufacturing modeling architectures: an architecture for a generic data-driven machine shop simulator
Charles McLean, Al Jones, Tina Lee, Frank Riddick
December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Full text available: pdf(228.99 KB)   Additional Information: full citation, abstract, references, citings

Standard interfaces could help reduce the costs associated with simulation model construction and data exchange between simulation and other software applications -- and thus make simulation technology more affordable and accessible to a wide range of potential industrial users. Currently, small machine shops do not typically use simulation technology because of various difficulties and obstacles associated with model development and data translation. This paper provides an overview of work c ...

195 Learning to extract information from large domain-specific websites using sequential models
Sunita Sarawagi, V. G. Vinod Vydiswaran
December 2004 **ACM SIGKDD Explorations Newsletter**, Volume 6 Issue 2

Full text available: pdf(204.98 KB)   Additional Information: full citation, abstract, references

In this article we describe a novel information extraction task on the web and show how it can be solved effectively using the emerging conditional exponential models. The task involves learning to find specific goal pages on large domain-specific websites. An example of such a task is to find computer science publications starting from university root pages. We encode this as a sequential labeling problem solved using Conditional Random Fields (CRFs). These models enable us to exploit a wide va ...

196 Semantic web applications: CS AKTive space: representing computer science in the semantic web
m. c. schraefel, Nigel R. Shadbolt, Nicholas Gibbins, Stephen Harris, Hugh Glaser
May 2004 **Proceedings of the 13th international conference on World Wide Web**

Full text available: pdf(346.31 KB)   Additional Information: full citation, abstract, references, index terms

We present a Semantic Web application that we callCS AKTive Space. The application exploits a wide range of semantically heterogeneousand distributed content relating to Computer Science research in theUK. This content is gathered on a continuous basis using a variety of methods including harvesting and scraping as well as adopting a range models for content acquisition. The content currently comprises aroundten million RDF triples and we have developed storage, retrieval andmaintenance methods ...

Keywords: ontologies, semantic web, semantic web challenge groups

197 Children's narrative development through computer game authoring
Judy Robertson, Judith Good
June 2004 **Proceeding of the 2004 conference on Interaction design and children: building a community**
Full text available: pdf(464.00 KB)   Additional Information: full citation, abstract, references

Recent research into the educational applications of computer games has focused on the skills which children can develop while playing games. Various benefits of computer game playing have been recorded, such as increased motivation; development of problem solving and discussion skills; and improvement in aspects of story writing. While encouraging children to *play* appropriately designed computer games can be used to enhance their learning, enabling children to *create* their own com ...

Keywords: 3D virtual reality environments, computer game design, story creation

198 DTD inference for views of XML data
Yannis Papakonstantinou, Victor Vianu
May 2000 **Proceedings of the nineteenth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**
Full text available: pdf(347.61 KB)   Additional Information: full citation, abstract, references, citings, index terms

We study the inference of Data Type Definitions (DTDs) for views of XML data, using an abstraction that focuses on document content structure. The views are defined by a query language that produces a list of documents selected from one or more input sources. The selection conditions involve vertical and horizontal navigation, thus querying explicitly the order present in input documents. We point several strong limitations in the descriptive ability of current DTDs and the need for extendi ...

199 Agents to assist in finding help
Adriana Vivacqua, Henry Lieberman
April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Full text available: pdf(1.35 MB)   Additional Information: full citation, abstract, references, citings, index terms

When a novice needs help, often the best solution is to find a human expert who is capable of answering the novice's questions. But often, novices have difficulty characterizing their own questions and expertise and finding appropriate experts. Previous attempts to assist expertise location have provided matchmaking services, but leave the task of classifying knowledge and queries to be performed manually by the participants. We introduce *Expert Finder*, an agent that automatically clas ...

Keywords: Java, agents, expertise location, help systems, matchmaking

200 Business process modeling/reengineering: Process improvement: simulations on .Net using Highpoint's HighMAST™ simulation toolkit

Peter C. Bosch

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Full text available: pdf(434.37 KB)   Additional Information: full citation, abstract, references

This paper describes the philosophy, architectures and key features of a new .Net-based simulation object model and toolkit called HighMAST™ (Highpoint Modeling and Simulation Toolkit). HighMAST™ is a set of class libraries built on top of Microsoft's .Net platform. It was built to take advantage of the object-oriented flavor and extensive integration plumbing ingrained in the .Net framework. It supports "active entity", "block-based", "workflow-oriented" and several other types o ...

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... By focusing our efforts on a single day, we believe we can help **generate** a greater ... grandparent, child or sibling to see a **healthcare provider**. ...
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... **construct** and execute a campaign. Managing a "database" could be as ... was
prototyped for a major **healthcare provider** network. Though the ...
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... patient or **healthcare provider** and for the purpose of improving patient care. ... **create**
content, reach out to the underserved areas and **build** stronger ...
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Chapter IV
... **generate** better paying jobs, and add positive wealth to a region. ... In the future,
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... smaller buildings also **generate** less construction waste—another
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plans to **build** ...
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... cold call, **create** thorough presentations, answer RFPs and **generate** a high ... **Create** a
network of contacts in which participants can **build** their career. ...
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... **Build** your own **website** or cut the cost to **build** your site with **website** ... we are happy to
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provider** organization to support interoperability among the ...
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Hodgkins Middle School
... begin with a $20000000 budget and purchase materials to **construct** the bridge. ... help
by calling your **healthcare provider** or Hope Zibura at Hodgkins. ...
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ALIGN TECHNOLOGY INC - ALGN Annual Report (10-K) ITEM 1. BUSINESS.
... Upon receipt, we use the treatment data to **construct** digital models of the ... physician or
other **healthcare provider** the law requires that we execute ...
sec.edgar-online.com/2005/ 03/03/0001193125-05-041786/Section2.asp - 83k -
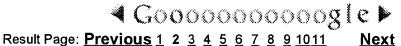Cached - Similar pages

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... what was done by the **healthcare provider** during case management, ... As implemented
in Albania, the methodology would probably **generate** more data than ...
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construct. ... with current AHA **Healthcare Provider** or American Red
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... studies currently under construction, and we will **generate** new. study questions. ... VA
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... **Website**. Capacity: 125 ... public policy arena, there is a need for data to **generate** ... for
Study of **Healthcare Provider** Behavior, University ...
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Granting

... Local partnerships are encouraged to apply, with a **healthcare provider** serving as ...
The grants are designed to **generate** knowledge, **create** solutions, ...
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... One of OASIS' long-term goals is to help **construct** a common liobrary of ... Payments to
a **healthcare provider** are sent directly to a lockbox. ...
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... United Way (Mariah Heard and Margaret Blood), they were able to **construct** a ... Insure
that families find and remain with a **healthcare provider** ...
www.srhassociates.com/reports/sb6sitevisits.pdf - Similar pages

HHS - National Vaccine Program Office (NVPO)

... As a result, it is possible to **construct** an online resource around a ... of the **healthcare
provider** group, particularly nurses since she is one of them. ...

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[PDF] Final Report - Chapter One - 15 April 2004
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... The Panel also urges that the process used to **construct** the Agency be ... and have
links with **healthcare provider** organizations in order to gain ...
www.health.gov.on.ca/english/public/ pub/ministry_reports/walker04/chapter_1.pdf -
Similar pages

[PDF] Final Annual Report
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... **healthcare provider**," said Parish Councilman Keith Leonard. ... We are obligated to
construct a new facility at our Eunice, Louisiana location ...
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[PDF] APPENDIX H
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... We're not just a dialysis provider, we're a **healthcare provider**. So all
of ... In Stage 3 the teams **construct** alternative action scenarios. ...
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... inject CRC or running disparity errors, as well as **generate** a wide
range of invalid ... the largest non-profit **healthcare provider** in the
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... use the treatment data to **construct** digital models of the patient's
dentition. ... Furthermore, our **healthcare provider** customers are
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healthcare provider to have the dose of either methadone or the ...
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L2	136	1 and (creat$6 or generat$6 or establish$7 or buil$3 or construct$7) with (website or (web adj site))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/19 07:25
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L5	32	2 and ("707"/$.ccls. or "715"/$.ccls. or "709"/$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/05/19 07:25